

EUROPEAN PATENT OFFICE

SN 10/522546

Patent Abstracts of Japan

PUBLICATION NUMBER : 2000273056
 PUBLICATION DATE : 03-10-00

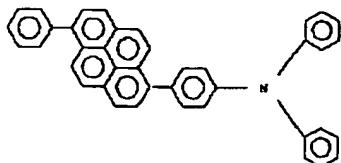
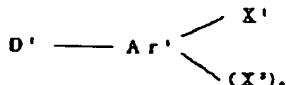
APPLICATION DATE : 10-12-99
 APPLICATION NUMBER : 11352216

APPLICANT : IDEMITSU KOSAN CO LTD;

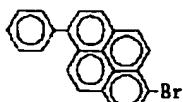
INVENTOR : ARAI HIROMASA;

INT.CL. : C07C 15/60 C07C211/54 C07C211/57
 C07D209/86 C07D223/24 C09K 11/06
 H05B 33/14 H05B 33/22

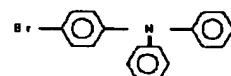
TITLE : AMINO OR STYRYL COMPOUND AND
 ORGANIC ELECTROLUMINESCENT
 ELEMENT USING THE SAME



II



III



IV

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a new amino or styryl compound which gives organic electroluminescent elements having excellent heat resistance and long lives.

SOLUTION: A compound of formula I (Ar1 is a 6-30C divalent or trivalent aromatic group; X1 and X2 are each styryl, a styrylaryl, a diarylamino or a diarylaminoaryl; (n) is 0 or 1; D1 is a 16-60C monovalent group having four or more carbon rings, when either of X1 or X2 is styryl or styrylaryl, or a 20-60C monovalent aromatic group having five or more carbon rings, when X1 and X2 are each the other). For example, a compound of formula II. The compound of formula I is obtained by preparing a Grignard reagent from a compound of formula III and then reacting the Grignard reagent with a compound of formula IV and Ni(dppp)Cl2 in anhydrous tetrahydrofuran.

COPYRIGHT: (C)2000,JPO